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Cavernous Malformations The Chiari Malformations Aneurysms-Osteoarthritis Syndrome Malformations of the Nervous System Venous Disorders Cavernous Malformations The Spectrum of Psychotic Disorders Acute Rheumatic Fever and Rheumatic Heart Disease, E-Book Fetal MRI New Approaches to the Pathogenesis of Sudden Intrauterine Unexplained Death and Sudden Infant Death Syndrome Mind, Brain, and Schizophrenia Respiratory Control and Disorders in the Newborn Textbook of Stroke Medicine Porth Pathogenesis of Neurodegenerative Disorders Multiple Sclerosis Cardiac Arrhythmias Histiocytic Disorders New Approaches to the Pathogenesis of Sudden Intrauterine Unexplained Death and Sudden Infant Death Syndrome Comprehensive Management of Arteriovenous Malformations of the Brain and Spine Hypoglycemia in Diabetes The Bad Bug Book Drug-Induced Sleep Endoscopy Transient Ischemic Attack and Stroke Neuromuscular Disorders of Infancy, Childhood, and Adolescence NeuroEndovascular Challenges Aortopathy Wheezing Disorders in the Pre-School Child Cerebral Small Vessel Disease Renal Pathophysiology Pathophysiology Flash Cards Intracranial Vascular Malformations Abnormalities of Respiration During Sleep Stroke, Part II:

Clinical Manifestations and Pathogenesis Neurovascular Surgery The Muscular Dystrophies Clinical Lipidology Nephrotic Syndrome in Children Psychosis Familial Mediterranean Fever

This open access book presents the diagnosis, investigation and treatment of neurovascular diseases, and offers expert opinions and advice on avoiding complications in neurovascular surgery. It also covers complication management and post-operative follow-up care. The book is divided in to three parts; the first part discusses common approaches in neurovascular surgery, describing the steps, indications for and limitations of the approach, as well as the associated complications and how to avoid them. The second part addresses surgical treatment based on pathology, taking the different locations of lesions into consideration. The third part focuses on the technological developments that support neurovascular surgery, which may not be available everywhere, but have been included to help vascular surgeon understand the principles. This book is a guide for young neurosurgeons, neurosurgery residents and neurosurgery fellows, as well as for medical students and nurses who are interested in neurosurgery or are associated with this field in any way. It is also a useful teaching aid for senior neurosurgeons. Accessible handbook covering the investigation, diagnosis and management of transient ischemic attacks and minor strokes. This volume provides a comprehensive and world-class review of the field of histiocytic neoplasms and

hemophagocytic lymphohistiocytosis (HLH). It reviews all the advances in the field of histiocytoses during the last ten years, particularly with regards to the genomic findings in LCH and other histiocytic neoplasms and the new suggested classification of the histiocytic disorders. Additionally, it features a state-of-the art update on the most recent treatment strategies for LCH, including the results of the last LCH-III international trial, salvage therapies such as reduced-intensity conditioning (RIC) stem cell transplant (SCT), and targeted therapies with BRAF and MEK inhibitors, as well as the challenging cases of CNS-neurodegenerative LCH and its therapeutic perspectives. For primary and secondary HLH the book updates the most recent genetic and pathophysiological findings, including macrophage-activation syndrome (MAS), and includes a special chapter on HLH in adults. Treatment chapters encompass therapy for newly diagnosed HLH and refractory disease as well as stem-cell transplantation and novel therapies. The text also highlights the most recent advances in the treatment of the uncommon histiocytic disorders, such as Erdheim-Chester disease (ECD), Juvenile xanthogranuloma (JXG) and JXG-like conditions, Rosai-Dorfman disease (RDD), and the very rare malignant histiocytoses. Written by international experts in the field, Histiocytic Disorders is a valuable resource for clinicians, researchers, fellows and residents who are interested in or manage histiocytic disorders in children and adults. Neuromuscular disorders are diagnosed across the lifespan and create many challenges especially with infants, children

and adolescents. This new edition of the definitive reference, edited by the established world renowned authorities on the science, diagnosis and treatment of neuromuscular disorders in childhood is a timely and needed resource for all clinicians and researchers studying neuromuscular disorders, especially in childhood. The Second Edition is completely revised to remain current with advances in the field and to insure this remains the standard reference for clinical neurologists and clinical research neurologists. The Second Edition retains comprehensive coverage while shortening the total chapter count to be an even more manageable and effective reference. Carefully revised new edition of the classic reference on neuromuscular disorders in infancy, childhood and adolescence. Definitive coverage of the basic science of neuromuscular disease and the latest diagnosis and treatment best practices. Includes coverage of clinical phenomenology, electrophysiology, histopathology, molecular genetics and protein chemistry Aneurysms-Osteoarthritis Syndrome: SMAD3 Gene Mutations is a first-of-its-kind compilation of the genetic discovery, research, and care associated with AOS. With the field of genetically triggered aortopathies growing, this important reference will compile the newest discoveries in this field, allowing cardiologists, cardio-thoracic surgeons, clinical geneticists, vascular surgeons, orthopedic surgeons, and researchers to gain the knowledge they need without having to gather the data from various sources. Coverage includes genotype and phenotype correlations, the functional role of SMAD3,

and insights into the role of TGFbeta signaling in aortic disease. The book will increase knowledge about AOS, providing awareness and better patient care for this aggressive disease. Covers Aneurysms-Osteoarthritis Syndrome, from genetic discovery to patient care Contains clinical management guidance on optimal cardiovascular treatments and surgery Explains the autosomal dominant syndromes caused by mutations in the SMAD3 gene Identifies the key features of this syndrome, including arterial aneurysms and tortuosity, early onset arthritis, and mild craniofacial features This volume deals with brain development malformations of the central nervous system, showcasing a unique approach that furthers research through systematic integration of exciting new developments from fields including molecular genetics, neuroimaging, and neuropathology. By integrating data and research from these disciplines, better conceptualization of the mechanisms of the developmental processes is achieved. Clinicians will find invaluable insights into complex issues, including midline hypoplasias, disorders of segmentation of the neural tube, and hamartomatous disorders of cellular lineage, amongst others. The clinical manifestations of central nervous system malformations are also discussed, along with new advancements in MRI techniques and analysis, including volumetric morphology, spectroscopy, and functional neuroimaging. Sections dedicated to management and treatment are also included in an effort to aid clinicians in their goal of providing better care for individuals affected by these types of

malformations. * A single source that encompasses the various aspects of cerebral malformations * A unique approach that furthers research through systematic integration of exciting new developments from fields including molecular genetics, neuroimaging, and neuropathology * New diagnostic tools, management protocols, and treatments for patient care Clinical Lipidology, a companion to Braunwald's Heart Disease, is designed to guide you through the ever-changing therapeutic management of patients with high cholesterol levels. From basic science to pathogenesis of atherothrombotic disease, to risk assessment and the latest therapy options, this medical reference book offers unparalleled coverage and expert guidance on lipidology in a straightforward, accessible, and user-friendly style. Get authoritative guidance from some of the foremost experts in the field. Easily access key content with help from treatment algorithms. Access options and evidence-based solutions for every type of patient scenario, as well as the latest clinical guidelines and clinically relevant evidence on risk assessment, special patient populations, and therapy, including recently approved and experimental therapies. Remain at the forefront of the cardiology field with up-to-date chapters on treatment guidelines; diet, exercise, and weight loss; pharmacologic therapies such as statins, omega-3 fatty acids, and combination therapy; evolving targets of therapy such as PCSK9 inhibition, CETP inhibition, and inflammation Prepare for special patient populations such as children and adolescents; women and

the elderly; transplant recipients; HIV patients; and those with chronic renal disease, familial hypercholesterolemia, other severe hypercholesterolemias, diabetes, or other metabolic syndromes. Take advantage of a format that follows that of the well-known and internationally recognized Braunwald's Heart Disease. Expert Consult eBook version included with purchase. Comprehensive, state-of-the-art review of the natural history, treatment, and outcomes of patients with vascular malformations of the brain and spine. This book is useful for physicians taking care of patients with cardiac arrhythmias and includes six chapters written by experts in their field. Chapter 1 discusses basic mechanisms of cardiac arrhythmias. Chapter 2 discusses the chronobiological aspects of the impact of apnoic episodes on ventricular arrhythmias. Chapter 3 discusses navigation, detection, and tracking during cardiac ablation interventions. Chapter 4 discusses epidemiology and pathophysiology of ventricular arrhythmias in several noncardiac diseases, methods used to assess arrhythmia risk, and their association with long-term outcomes. Chapter 5 discusses the treatment of ventricular arrhythmias including indications for implantation of an AICD for primary and for secondary prevention in patients with and without congestive heart failure. Chapter 6 discusses surgical management of atrial fibrillation. This unique, contemporary book is the successor edition of a ground-breaking, authoritative title devoted to the pathology and treatment of chiari malformations. Since an abundance of research and development has occurred after the

publication of the Chiari Malformations this updated title meets the market need for a reference that reflects such advances in the field. Chiari Malformations, 2nd Edition is divided into nine sections. Opening sections feature chapters on general aspects, diagnostic features and clinical presentation. These are followed by sections on differential diagnosis, treatment and prognosis. Finally, the book closes with an extensive discussion on research, related pathologies and patient resources. Expertly written chapters are supplemented with numerous high-quality illustrations and images to aid in visual learning. An impressive, nuanced successor, Chiari Malformations, 2nd Edition, is an invaluable resource for neuroscientists and clinicians at all levels, as well as graduate students to specific research scientists studying this region. Psychosis has been the central subject of psychiatric research for more than a century and yet it remains an intriguing enigma. This volume reviews the current status of research on psychosis in three different aspects, namely, phenomenology, which is the philosophical/conceptual basis of psychosis; psychopathology, which is the clinical manifestations of psychosis; and pathophysiology, which is the scientific pursuit for the mechanism of psychosis. Chapters focus on schizophrenia, covering such topics as clinical staging, negative symptoms, epigenetics, DNA methyltransferases, and more. The Bad Bug was created from the materials assembled at the FDA website of the same name. This handbook provides basic facts regarding foodborne pathogenic microorganisms and natural toxins. It

brings together in one place information from the Food & Drug Administration, the Centers for Disease Control & Prevention, the USDA Food Safety Inspection Service, and the National Institutes of Health. As the average life expectancy of many populations throughout the world increases, so to does the incidence of such age-related neurodegenerative disorders as Alzheimer's, Parkinson's, and Huntington's diseases. Rapid advances in our understanding of the molecular genetics and environmental factors that either cause or increase risk for age-related neurodegenerative disor ders have been made in the past decade. The ability to evaluate, at the cellular and molecular level, abnormalities in postmortem brain tissue from patients, when taken together with the development of valuable animal and cell-culture models of neurodegenerative disorders has allowed the identification of sequences of events within neurons that result in their demise in specific neurodegenerative disorders. Though the genetic and environmental factors that pro mote neurodegeneration may differ among disorders, shared biochemical cascades that will ultimately lead to the death of neurons have been identified. These cascades involve oxyradical production, aberrant regulation of cellular ion homeostasis and activation of a stereotyped sequence of events involving mitochondrial dysfunction and activa tion of specific proteases. Pathogenesis of Neurodegenerative Disorders provides a timely compilation of articles that encompasses fundamental mechanisms involved in neurodegenerative disorders. In addition, mechanisms that

may prevent age-related neurodegenerative disorders are presented. Each chapter is written by an expert in the particular neurodegenerative disorder or mechanism or neuronal death discussed. Designed to meet the evolving needs of the practising spinal surgeon, this modern and definitive volume adopts a regional and technique-specific approach to surgical spinal stabilisation and spinal implants. Appropriate specialists offer a thorough appraisal of the theory of design of implants (including design contraints), and optional surgical procedures available to the surgeon are fully reviewed. Full procedural descriptions are accompanied by numerous illustrations and detailed discussion of the complications which can arise during treatment is included. Medico-legal and ethical issues are also appraised." Practical textbook aimed at doctors beginning work on a stroke unit or residents embarking on training in stroke care. Up-to-date discussion of the etiology, diagnosis, treatment, and prevention of this common cause of stroke and cognitive impairment. Sudden Infant Death Syndrome (SIDS) is the leading cause of death among infants in the first year of age. The more known definition of SIDS is the sudden unexpected death of an infant less than 1 year of age, with onset of the fatal episode apparently occurring during sleep, that remains unexplained after a thorough investigation, including performance of a complete autopsy and review of the circumstances of death and the clinical history. Despite the success of the Back to Sleep campaigns to reduce the risks introduced worldwide, the frequency of SIDS (striking

one infant every 750-1,000 live births) has not significantly declined in the last years. Sudden Intrauterine Unexplained Death Syndrome (SIUDS), referring to fetuses that die unexpectedly, particularly in the last weeks of gestation, without any cause even after a complete autopsy, including examination of the placental disk, umbilical cord and fetal membranes, has a six-eightfold greater incidence than that of SIDS. Even if the pathogenetic mechanism of these deaths has not yet been determined, the neuropathology seems to be a consistent substrate in both SIUDS and SIDS. Subtle common developmental abnormalities of brainstem nuclei checking the vital functions have been highlighted, frequently related to environmental risk factors, such as cigarette smoke, air and water pollution, pesticides, food contamination, etc. Exogenous toxic factors can in fact interact in complex ways with the genetic constitution of the infant leading to polymorphisms and/or mutations of specific genes (as polymorphisms of the serotonin transporter gene 5-HTT, the regulator of the synaptic serotonin concentration, and of the PHOX2B, the key gene in the Congenital Central Hypoventilation Syndrome). These interactions can directly injure the development of the autonomic nervous system, frequently resulting in hypoplasia of the vital brainstem centers, and consequently in sudden death. It is very important to continue studying these syndromes and in particular identify all possible congenital alterations and their correlation with the exposure to environmental risk factors, in order to reduce their incidence and mitigate the surrounding social concern.

The goal of this research topic is to propose new approaches to explain the pathogenesis of both SIUDS and SIDS and consequently new prevention strategies to decrease the incidence of these unexpected and very devastating events for families. Expert authors in the Topic field are encouraged to submit original research articles aimed to widen the current knowledge on the pathological substrates of these deaths, also considering the correlations with possible risk factors. Submissions of hypotheses, opinions and commentaries are also welcome. This Research Topic would lead to development of targeted risk-lowering strategies to reduce the incidence of both SIUDS and SIDS. Furthermore, the adoption of appropriate preventive measures could also lead to improve the quality of life in adults, promoting active and healthy aging. Despite advances in molecular genetics and brain imaging, we are still a long way from understanding the cause of schizophrenia. Williamson argues that it is time to focus on identifying the final common pathway. He describes the possibilities for this pathway at an understandable level in the context of what is already known about schizophrenia. While there are no preferred models, a pattern is emerging which implicates structures in the brain known to be important in integrating perception, cognition, and affect. This text offers second-year medical students a case-based approach to learning mechanisms of renal disease. Each chapter covers a disease and begins with a patient case, followed by discussion of the pathophysiology of the disease. Issues of differential diagnosis and therapy are

linked to pathophysiologic mechanisms. Short questions interspersed in the text require students to apply their knowledge, and detailed answers to the questions are given. The Second Edition incorporates the latest findings regarding mechanisms of renal disease. This edition also has a two-color art program and a fresh new design that features cases, questions, and other pedagogical elements prominently. This text analyses the pathophysiology, diagnosis, treatment and control of respiratory disorders in the newborn infant. It explores the mechanisms, patterns and factors influencing respiratory activity and dysfunction, as well as the aetiology, management and evaluation of conditions such as respiratory distress syndrome, bronchopulmonary dysplasi Cavernous malformations can lead to significant neurologic symptoms - from nerve pain, weakness and coordination difficulties to visual loss, memory deficits, and speech impairment, and even extending as far as intractable epilepsy and paralysis. At 3-7% incidence in the general population is small but significant, yet the current literature does not offer comprehensive, up-to-date coverage of this condition. This volume it the HCN series is an evidence-based compendium which addresses both the scientific and clinical aspects of this unique disease process. The volume covers didactic aspects, such as the epidemiology, etiology, and diagnosis of cavernous malformations, while also providing expert clinical information on the management and treatment of these lesions. In addition, it provides coverage of modern-day advances in the genetics of

cavernous malformations, as well as discussion regarding future open research questions. Readers from the laboratory bench to the bedside can expect a broad yet objective review of this pathology, with updates from the latest scientific literature and data supporting current practices. Offers an evidence-based focus with coverage of both the scientific and clinical aspects of cavernous malformations Addresses epidemiology, etiology, diagnosis, and genetics Clinical insights regarding indications for surgery, surgical techniques, outcomes, and prognostic factors drawn from the authors' extensive experiences Edited work with chapters authored by leaders in the field around the globe - the broadest, most expert coverage available This is the first textbook to focus on Aortopathy, a new clinical concept for a form of vasculopathy. The first section of the book starts from discussing general concept and history of Aortopathy, and then deals with its pathophysiology, manifestation, intrinsic factor, clinical implication, management and prevention. The second part closely looks at various disorders of the Aortopathy such as bicuspid aortic valve and coarctation of aorta. The book editors have published a lot of works on the topic and have been collecting relating data in the field of congenital heart disease for the past 20 years, thus present the book with confidence. The topic - an association of aortic pathophysiological abnormality, aortic dilation and aorto-left ventricular interaction - is getting more and more attention among cardiovascular physicians. This is the first book to refer for cardiologists, pediatric cardiologists, surgeons,

ACHD specialists, etc. to acquire thorough knowledge on Aortopathy. The massive convergence of information about cavernous malformations has been synthesized in this volume by experts in the field of pathology, neuroradiology and neurosurgery. Cavernous Malformations represents state-of-the-art knowledge about this lesion and the spectrum of opinion about its nature, clinical behavior and management strategies. Highlights of Cavernous Malformations: Definition and pathologic features Epidemiology Diagnostic imaging Epilepsy Hemorrhage Conservative management Surgical intervention Microsurgical treatments Spinal cavernous malformations Pediatrics Radiotherapy (Distributed by Thieme for the American Association of Neurological Surgeons) The infant with persistent or recurrent wheeze during the first 2 years of life poses a particularly difficult diagnostic dilemma, which can be a source of considerable anxiety to both physicians and parents. Without neglecting basic science, Wheezing Disorders in the Preschool Child presents information in a logical and readable fashion that is pa This volume provides a comprehensive guide to the manifestations and pathogenesis involved with stroke, including advancements in research and a newfound understanding of the biochemical background of this cerebrovascular disorder. This intensive handbook is meant to give clinicians a source reference that will enable them to gain a thorough knowledge and understanding of the clinical features and management of the many neurological manifestations of stroke disorder. In addition, practitioners,

clinicians, and researchers will gain a better understanding of highly studied topics, including amongst others, the medical complications associated with stroke, chapters on anterior circulation and hemorrhagic stroke syndromes, stroke related psychiatric disorders, and other rare causes of stroke disorder. Remarkable advances have been made in embolization of cerebral aneurysms, arteriovenous malformations and stroke treatment during the past decades. Endovascular techniques are less invasive than other forms of neurosurgery. However, endovascular neurosurgery is becoming more complicated as the technology is becoming more sophisticated. Frontiers in Neurosurgery is an ebook series which triggers principle issues that still fuel debate in neurosurgery. The series is intended as a reference for practicing endovascular neurosurgeons, vascular neurosurgeons, interventional neurologists and neuroradiologists who have a solid knowledge of neuroangiography. The first volume of this series brings reviews on a variety of challenges that neuroendovascular surgeons can face such as: - Devices for Neuroendovascular Treatment - Dual Antiplatelet Therapy in Neuroendovascular Procedures - Endovascular Reperfusion Management for Acute Ischemic Stroke - Spinal Vascular Pathology - Anesthesia Options for Endovascular Neurosurgery and much more. Acute Rheumatic Fever and Rheumatic Heart Disease is a concise, yet comprehensive, clinical resource highlighting must-know information on rheumatic heart disease and acute rheumatic fever from a global perspective. Covering

the major issues dominating the field, this practical resource presents sufficient detail for a deep and thorough understanding of the latest treatment options, potential complications, and disease management strategies to improve patient outcomes. Divided into four distinct sections for ease of navigation: Acute Rheumatic Fever, Rheumatic Heart Disease, Population-Based Strategies for Disease Control, and Acute and Emergency Presentations. International editors and chapter authors ensure a truly global perspective. Covers all clinical aspects, including epidemiology, pathophysiology, clinical features, diagnosis, management, and treatment. Includes key topics on population-based measures for disease control for effective primary, secondary, and tertiary prevention. Consolidates today□s available information and guidance into a single, convenient resource. The definitive resource on the innovative use of DISE for obstructive sleep apnea Obstructive sleep apnea is the most prevalent sleep-related breathing disorder, impacting an estimated 1.36 billion people worldwide. In the past, OSA was almost exclusively treated with Continuous Positive Airway Pressure (CPAP), however, dynamic assessment of upper airway obstruction with Drug-Induced Sleep Endoscopy (DISE) has been instrumental in developing efficacious alternatives. Drug-Induced Sleep Endoscopy: Diagnostic and Therapeutic Applications by Nico de Vries, Ottavio Piccin, Olivier Vanderveken, and Claudio Vicini is the first textbook on DISE written by world-renowned sleep medicine pioneers. Twenty-four chapters feature contributions from an

impressive group of multidisciplinary international experts. Foundational chapters encompass indications, contraindications, informed consent, organization and logistics, patient preparation, and drugs used in DISE. Subsequent chapters focus on treatment outcomes, the role of DISE in therapeutic decision making and upper airway stimulation, pediatric sleep endoscopy, craniofacial syndromes, advanced techniques, and more. Key Highlights Comprehensive video library highlights common and rare DISE findings A full spectrum of sleep disordered breathing and OSA topics, from historic to future perspectives Insightful clinical pearls on preventing errors and managing complications including concentric and epiglottis collapse Discussion of controversial DISE applications including oral appliances and positional and combination therapies This unique book is essential reading for otolaryngology residents, fellows, and surgeons. Clinicians in other specialties involved in sleep medicine will also benefit from this reference, including pulmonologists, neurologists, neurophysiologists, maxillofacial surgeons, and anesthesiologists. This book, written by very well known opinion leaders in the field, covers all aspects of familial Mediterranean fever, the most common monogenic autoinflammatory disease. The opening chapters explain the genetic basis of the disease and provide insights into the pathogenesis derived from recent experimental studies. A large part of the book is then devoted to a detailed description of the typical and atypical clinical presentations, the disease course, and potential complications in both

pediatric and adult patients. Guidance is provided on the measurement of disease severity and the management of patients in daily practice. The advice regarding treatment is based on the best currently available evidence and attention is also paid to important emerging treatments. The book is part of Springer's series Rare Diseases of the Immune System, which presents recently acquired knowledge on pathogenesis, diagnosis, and therapy with the aim of promoting a more holistic approach to these conditions. Monogenic autoinflammatory diseases are hereditary disorders that are caused by single-gene defects in innate immune regulatory pathways and are characterized by a clinical and biological inflammatory syndrome in which there is limited, if any, evidence of autoimmunity. Familial Mediterranean fever itself is due to a mutation in the MEFV gene, which codes for the protein pyrin; it is characterized by periodic fever and episodes of painful inflammation in the abdomen, chest, and joints. Familial Mediterranean Fever will be an invaluable source of up-to-date information for all practitioners involved in the care of patients with the disease. Sudden Infant Death Syndrome (SIDS) is the leading cause of death among infants in the first year of age. The more known definition of SIDS is the sudden unexpected death of an infant less than 1 year of age, with onset of the fatal episode apparently occurring during sleep, that remains unexplained after a thorough investigation, including performance of a complete autopsy and review of the circumstances of death and the clinical history. Despite the success of the "Back to Sleep"

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effective treatment utilizing the new techniques of gene andcell therapy.Professor Emery has invited chapters from the leading international experts in the field providing a unique insight into the current situation and the hopes for the future. Pathophysiology Flash Cards contain 240 clinical cases that challenge you to apply principles to real life scenarios. Each two-sided card features a clinical case and challenges you to diagnose the condition Provides a clear explanation of the underlying physiology Allows you to brush up on system-specific disorders A super-effective way to prepare for pathophysiology courses and board exams Student and peer reviewed for the most relevant material possible This is the most comprehensive book to be written on the subject of fetal MRI. It provides a practical hands-on approach to the use of state-of-the-art MRI techniques and the optimization of sequences. Fetal pathological conditions and methods of prenatal MRI diagnosis are discussed by organ system, and the available literature is reviewed. Interpretation of findings and potential artifacts are thoroughly considered with the aid of numerous high-quality illustrations. In addition, the implications of fetal MRI are explored from the medico-legal and ethical points of view. This book will serve as a detailed resource for radiologists, obstetricians, neonatologists, geneticists, and any practitioner wanting to gain an in-depth understanding of fetal MRI technology and applications. In addition, it will provide a reference source for technologists, researchers, students, and those who are implementing a fetal MRI service in their own facility. A guide to diagnosis of today's

venous statis disorders (venous telangiectasias, varicose veins, chronic venous statis disease), intended for vascular and general surgeons. Describes modern treatments of deep venous thrombosis and its manifestations of acute and chronic pulmonary embolization. Intended for diabetes researchers and medical professionals who work closely with patients with diabetes, this newly updated and expanded edition provides new perspectives and direct insight into the causes and consequences of this serious medical condition from one of the foremost experts in the field. Using the latest scientific and medical developments and trends, readers will learn how to identify, prevent, and treat this challenging phenomenon within the parameters of the diabetes care regimen. The spectrum of psychotic disorders encompasses as many as 25 different etiologies, ranging from the primary psychoses through those secondary to medical conditions, drugs and medications, and sensory impairments. This 2007 book provides a one-stop, comprehensive review of these disorders and gives quick comparisons for diagnostic decision-making to help with difficult differential diagnoses. Every chapter is uniformly structured to show comparisons between each disorder of presentation, course, and underlying neuropathology. Evidence for each etiology is also rated, indicating the confidence level the reader can place in the current findings. The international team of authors also examines data supporting a unitary neurobiological model of psychosis and the hypothesis that psychosis is a neurobiological syndrome similar to aphasia or apraxia.

This book represents a paradigm shift in understanding, classifying and diagnosing these disorders, providing directions for future research and treatment. It will be of great interest to psychiatrists and neuroscientists alike.

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